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DATE MAILED: 07/13/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/422,804	10/22/1999	EDWIN SOUTHERN	00263/PP/IR	6012
7	0 07/13/2005		EXAMINER	
Wenderoth, Lind & Ponack			MARSCHEL, ARDIN H	
2033 K street N			ART UNIT	PAPER NUMBER
Washington, I	OC 20006		1631	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
Office Action Summary		09/422,804	09/422,804 SOUTHERN, EI					
		Examiner	Art Unit					
		Ardin Marschel	1631					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE MA - Extension after SIX - If the per - If NO pe - Failure to Any reply	RTENED STATUTORY PERIOD FOR RILLING DATE OF THIS COMMUNICATION of time may be available under the provisions of 37 C (6) MONTHS from the mailing date of this communication of or reply specified above is less than thirty (30) days riod for reply is specified above, the maximum statutory or reply within the set or extended period for reply will, by a received by the Office later than three months after the atent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, mon. , a reply within the statutory minimum operiod will apply and will expire SIX (6) statute, cause the application to become	nay a reply be timely filed of thirty (30) days will be considered time MONTHS from the mailing date of this of me ABANDONED (35 U.S.C. § 133).					
Status			•					
1)⊠ R	esponsive to communication(s) filed on	23 April 2002.						
2a) <u></u> ⊤t	nis action is FINAL . 2b)⊠	This action is non-final.						
• —	nce this application is in condition for allosed in accordance with the practice un	·	*	e merits is				
Disposition	of Claims			·				
4a 5)□ Cl 6)⊠ Cl 7)□ Cl	aim(s) <u>17-99</u> is/are pending in the appli) Of the above claim(s) is/are wit aim(s) is/are allowed. aim(s) <u>17-99</u> is/are rejected. aim(s) is/are objected to. aim(s) are subject to restriction a	hdrawn from consideration						
Application	Papers		·	•				
9) <u></u> Th	e specification is objected to by the Exa	miner.	•					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Ap	plicant may not request that any objection t	o the drawing(s) be held in ab	eyance. See 37 CFR 1.85(a).					
	placement drawing sheet(s) including the c e oath or declaration is objected to by the	•	÷ · · ·	• •				
Priority und	ler 35 U.S.C. § 119							
12)	knowledgment is made of a claim for fo All b)☐ Some * c)☐ None of: ☐ Certified copies of the priority docu	ments have been received. ments have been received priority documents have b ureau (PCT Rule 17.2(a)).	in Application No een received in this National	Stage				
Attachment(s)								
	References Cited (PTO-892)		iew Summary (PTO-413)	-				
3) Informati	Draftsperson's Patent Drawing Review (PTO-94 on Disclosure Statement(s) (PTO-1449 or PTO/S (s)/Mail Date	B/08) 5) Notice	No(s)/Mail Date. (1 COPY). e of Informal Patent Application (PT	O-152)				

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

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DETAILED ACTION

Due to the below summarized issues, the suspension, mailed 10/18/02, is hereby withdrawn.

Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. Upon reconsideration, the following rejections and/or objections are newly applied. They constitute the complete set presently being applied to the instant application.

PRIOR ART

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 17-19, 21-24, 38, 40, 42, 43, 45-51, 63, 64, 66, 73, 75, 76, 79, 80, 89, 91-94, and 96-98 are rejected under 35 U.S.C. 102(e)(2) as being clearly anticipated by Stavrianopoulos et al. (P/N 4,994,373).

Example 1 in column 8 of the reference discloses the treatment of a glass support with a silane linker for covalent linkage of single stranded DNA, reasonably an oligonucleotide, thereto to form an array for hybridization usage. In column 8, lines 40-45, the description of "various" single stranded analytes, including mutated gene fragments as in instant claim 19, for such hybridization is reasonably interpreted as

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being "different" oligonucleotides as instantly claimed. The depressions or wells are clearly known locations also as instantly claimed. It is well known that glass itself is impermeable as instantly required even though it may be macroscopically porous. Microtiter plates as utilized in the reference have 96 wells thus also anticipating the claim 18 different oligonucleotides limitation. See example 7 in column 12. Claims 23 and 24 and equivalents are included due to these claims being directed to product by process type subject matter which is not deemed to distinguish over the basic array claims subject matter. Fluorescent labels are cited in column 3, lines 37-43, as also in instant claim 75 as are radioactive practice in column 3, lines 56-64, as in instant claim 76.

OBVIOUSNESS DOUBLE PATENTING

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 17-99 are rejected under the judicially created doctrine of obviousnesstype double patenting as being unpatentable over claims 1-12 of U.S. Patent 6,054,270.

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Although the conflicting claims are not identical, they are not patentably distinct from each other because the respective claim sets are drawn to arrays, methods of making same and analyzing same specifically citing impermeable supports, allelic variants a plurality of different oligonucleotides and methods standard in hybridization assays of using them including also computer implemented practice as well as densities cited in the respective specifications described as Dictionary terms for the arrays as respectively claimed.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

No claim is allowed.

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the Central PTO Fax Center. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993)(See 37 CFR § 1.6(d)). The Central PTO Fax Center number is (571) 273-8300.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ardin Marschel, Ph.D., AU 1631 Supervisory Patent Examiner, whose telephone number is (571) 272-0718. The examiner can normally be reached on Monday-Friday from 8 A.M. to 4 P.M.

Any inquiry of a general nature or relating to the status of this application should be directed to Legal Instrument Examiner, Tina Plunkett, whose telephone number is (571) 272-0549.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

July 10, 2005

ARDIN H. MARSCHEL
SUPERVISORY PATENT EXAMINER